

VALUE ENGINEERING CHANGE PROPOSAL  
MISSOURI DEPARTMENT OF TRANSPORTATION

☐ Conceptual Proposal ☒ Final Proposal

Date 3-18-10

Contract ID 090120-101

Job No. 51L1040

County Clinton I-35

Original Bid Cost 14,616,568.40

Contractor Loch Sand and Const. Co.

By Jerry Wilson

Designed By Jerry Wilson

Phone 816-880-9262

VECP# 10-42 (to be completed by C.O.)

VECP ☐ or PDVECP ☐

1. Description of existing requirements and proposed change(s). Advantages/Disadvantages

68,640 LF = Existing - Combine Total \$0.96 per LF  
4" Pre-Formed Removable Marking Tape | Problem with cold weather installations & wet weather  
Pavement Marking Removal

68,640 LF = Proposed - Combine Total \$0.44 per LF  
4" Yellow High Build Acrylic Water borne pavement mark paint  
Water blast Pavement Marking Removal | No problem with cold weather

2. Estimate of reduction in construction costs.

\$34,320.00

3. Prediction of any effects the proposed change(s) will have on other department costs, such as maintenance and operations.

No Change

4. Anticipated date for submittal of detailed change(s) of items required by Section 104.6 of the Specifications.

3-18-10

(date)

5. Deadline for issuing a change order to obtain maximum cost reduction, noting the effect of contract completion time or delivery schedule.

3-20-10

(date)

No change

(effect)

6. Dates of any previous or concurrent submission of the same proposal.

NA

(date and/or dates)

Additional Comments:

**\*\* Portion Below This Line To Be Filled Out by MoDOT \*\***

Comments: We were experiencing trouble with the temporary tape staying down on the asphalt surface. With the spring moisture coming out of the pavement, we felt the temporary paint would stay better than the tape.

Krista L. Burnett

Submitted By Resident Engineer

4/15/10

Date

Comments:

Concur w/ RE



Approval  
Recommended

Donald D. Gorman DOME

4-22-10



Rejection  
Recommended

District Engineer

Date

Comments:



Approval  
Recommended

Roopa Banerji

5/17/10



Rejection  
Recommended

Federal Highway Administration

Date

Required for FHWA Full Oversight Projects

Comments:



Approval



Rejection

David A. Gorman

State Construction and Materials Engineer

Date

Distribution: Resident Engineer, Project Manager, District Construction & Materials Engineer, State Construction & Materials Engineer, FHWA Value Engineering Administrator - MoDOT, P. O. Box 270, Jefferson City, MO 65102

**FW: I-35**

Wednesday, March 17, 2010 4:28 PM

**From:** "Larry McLain" <larry@twintraffic.com>**To:** jwilson@loch-lscc.com, jwilson1317@yahoo.com

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**From:** Larry McLain [mailto:larry@twintraffic.com]**Sent:** Wednesday, March 17, 2010 1:26 PM**To:** 'jwilson@loch-lscc.com'**Cc:** 'Bill Francis'**Subject:** I-35

Re: J111040

Jerry,

Due to the weather at this time we do not feel we would be able to successfully install the tape per manufacturer's requirements to perform for the duration of this construction phase. Per our phone conversation we would like to suggest that paint be used in lieu of the tape for this traffic switch. We request a price of \$.42/lnft to install and remove the paint. I think this would mostly affect the centerline markings as the edgelines would not be removed but "repainted" and the crossovers would be painted and torn out. We could attempt to tape the tapers for the lane drops leading to the crossovers as they are less in length and easier/safer to maintain.

We feel this would be the best method at this time for two reasons. First, painting has less weather limitations to install and is less susceptible to failures from subsequent weather events after installation. This is our biggest fear right now is if we install tape in marginal conditions and it becomes subject to a snow event, big temperature fluctuations, or excessive rain it will come up and then trying to fix it becomes a bigger and more dangerous problem. Secondly the combined prices for the painting and removal (\$.42/lnft) are a savings compared to the tape and removal (\$.94/lnft).

I think this would be a better solution for all, except I have to find a home for a lot of tape, as it should keep things focused on the construction instead of how much tape came up today and finding a way to get it fixed. Please review and let me know what you think or if you have any questions.

Thanks,  
Larry



# LOCH SAND AND CONSTRUCTION COMPANY

## Heavy-Highway Construction / Ready Mix Concrete

26866 238th Street  
P.O. Box 647  
Maryville, Missouri 64468  
Phone: (660) 562-3100  
Fax: (660) 562-2481

11020 N.W. Ambassador Drive  
Suite 130  
Kansas City, Missouri 64153  
Phone: (816) 880-9262  
Fax: (816) 880-9265

March 18, 2010

Ms. Krista Burnett, P.E.  
Assistant Resident Engineer

Missouri Department of Transportation  
Cameron Project Office  
1505 N. Harris Street  
Cameron, MO 64429

Re: Route I-35  
Job. No. J111040  
Clinton County  
Value Engineering Change Proposal (Paint in lieu of Tape)

Dear Ms. Burnett:

I received the attached e-mail from my Traffic Control and Striping subcontractor, Twin Traffic. They have concerns over the installation of Preformed Marking Tape to be installed on the concrete SBL. They do not feel the forecasted snow and cold conditions will allow the tape to properly adhere to the concrete pavement. Regardless of warm conditions today, the concrete pavement is still cold, and will be until we have several days of warm weather.

As an alternate we propose eliminating the double yellow tape on the SBL and install 4" Yellow High Build Acrylic Water Borne Pavement Marking Paint. Removal of the paint would be accomplished by high pressure water blasting in lieu of pulling up the proposed Preformed Removable Marking Tape.

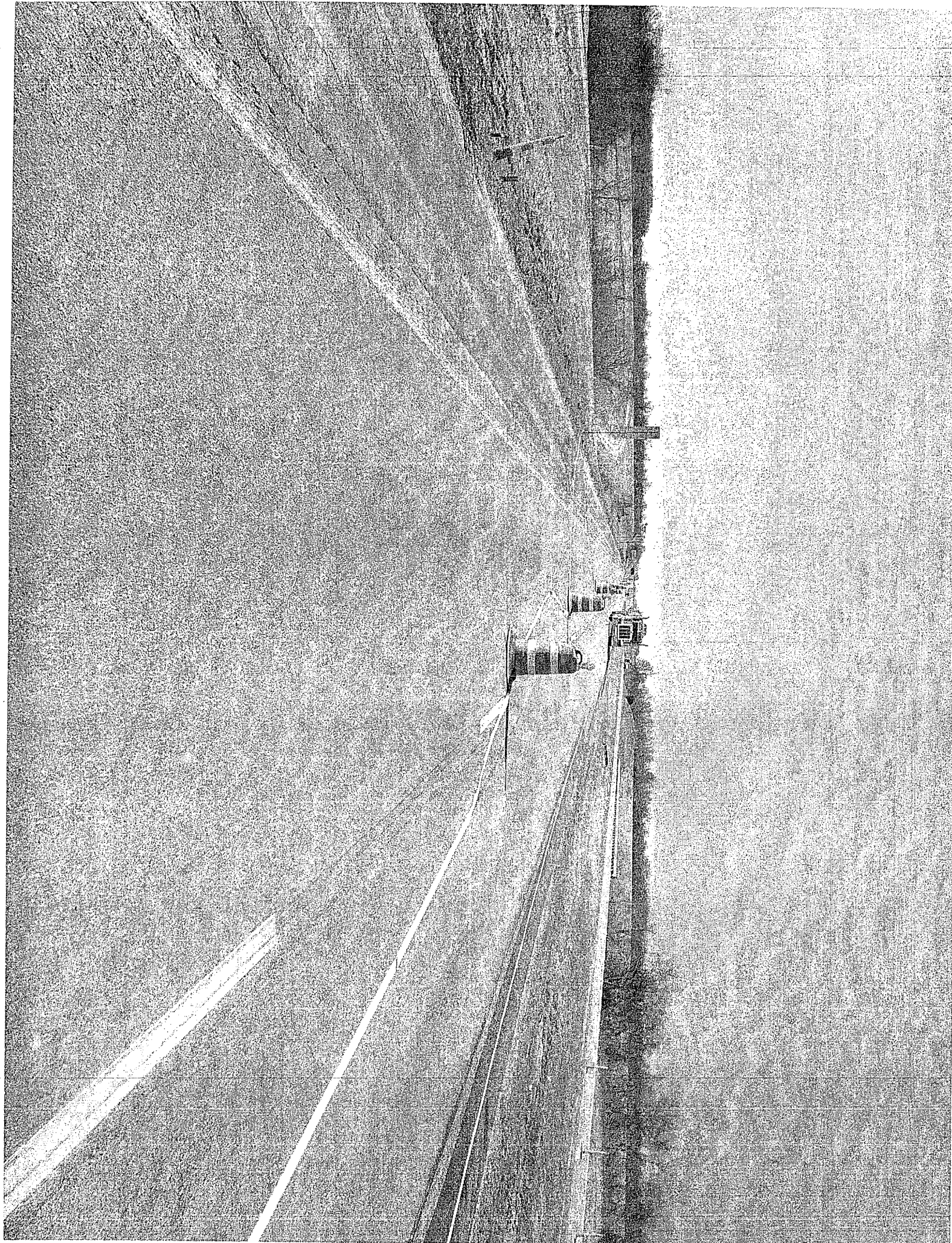
Water blasting paint is considerably more expensive than pulling off tape, however comparing a combined new quote price for yellow paint and water blasting removal at \$0.44 per lineal foot, to tape and existing removal price of \$0.96 per lineal foot, there is a cost saving of \$34,320.00.

Loch and MoDOT would share the saving at a 50% split.

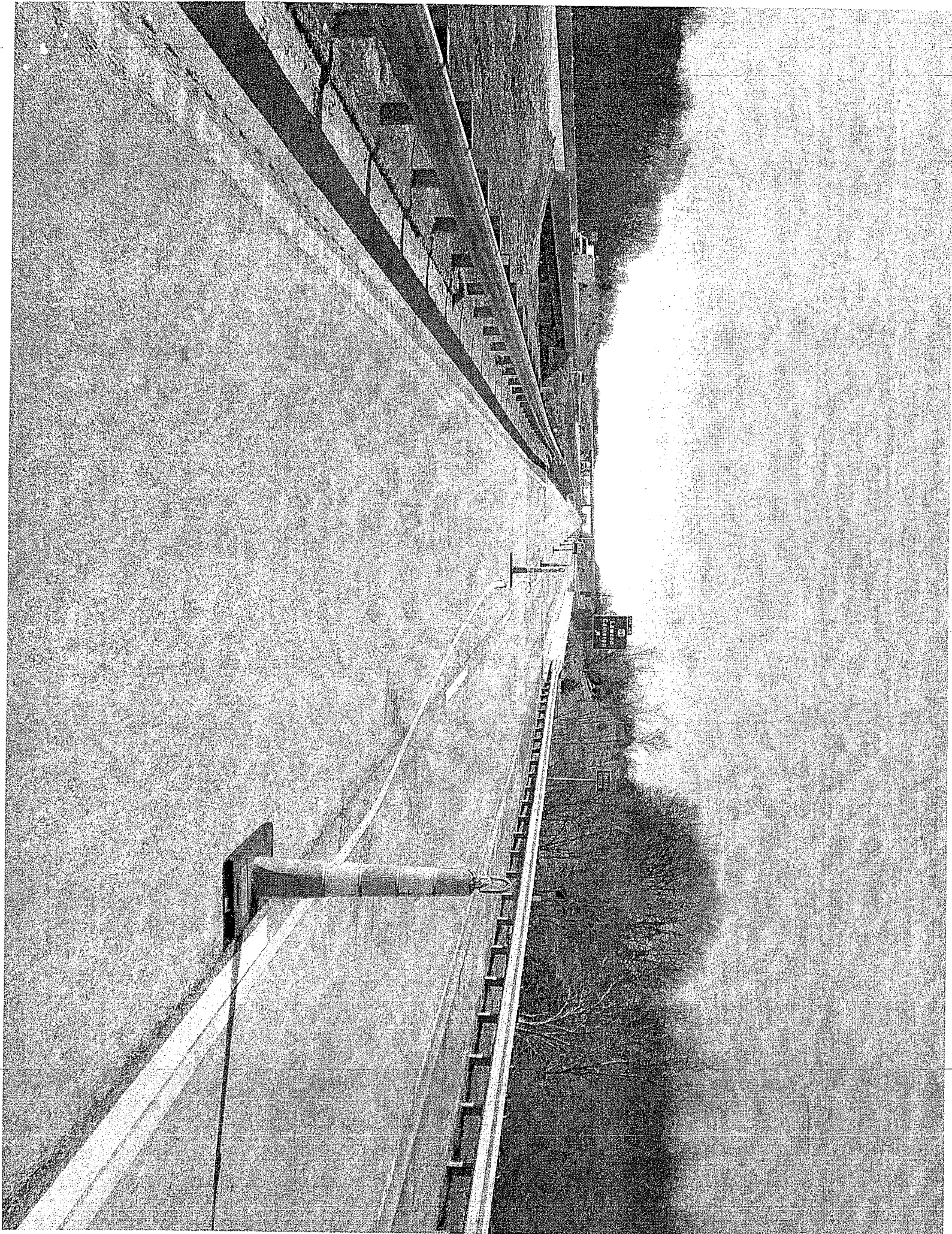
RECEIVED  
MAR 19 2010  
MISSOURI DEPARTMENT OF TRANSPORTATION  
CLINTON COUNTY OFFICE



ASSOCIATED GENERAL CONTRACTORS OF MISSOURI  
AMERICAN CONCRETE PAVING ASSOCIATION - MO/KAN  
KANSAS CONTRACTOR'S ASSOCIATION  
HEAVY CONSTRUCTOR'S ASSOCIATION OF GREATER KANSAS CITY







# VALUE ENGINEERING CHECK SHEET

## TYPE OF WORK

(Check one that applies)

- ☐ Bridge/Structure/Footings
- ☐ Drainage Structures (RCP, RCB, CMP's, ect.)
- ☐ TCP/MOT
- ☐ Paving (PCCP, ect.)
- ☐ Grading/MSE Walls
- ☐ Signal/Lighting/ITS
- ☒ Misc. STRIPING

## SUMMARY OF PROPOSAL

(If needed, condense summary to a couple of lines)

TEMPORARY TAPE STRIPING WILL BE REPLACED  
WITH TEMPORARY PAINT STRIPING ON I-35 PROJECT.

## SCANNING OF DOCUMENT

If the proposal is large, please mark or make note, which pages need to be scanned into the database. If there are special instructions, make note of them here.